ABSTRACT OF DISCLOSURE

A flash memory that shares a booting function and a booting program, and an apparatus and method for protecting the same in an AT Attachment Packet Interface (ATAPI) drive. The flash memory includes a first boot zone, where a booting program is stored, a second boot zone, where a backup of the booting program is stored, and a data zone, where an executable and downloaded firmware program is stored, wherein the corresponding booting program in either of the first or second boot zones which has no error is executed when an error is detected in the alternate first or second boot zone. Accordingly, it is possible to restore a flash memory damaged due to some external cause to its original state, thereby reducing costs for replacement of the damaged flash memory.